



**CALIFORNIA STATE SCIENCE FAIR
2014 PROJECT SUMMARY**

Name(s) Robyn G. Mauritzen	Project Number 34751
Project Title Poisonous Plastics	
Abstract Objectives/Goals The goal is to prove which plastics are the most dangerous when microwaved. Methods/Materials I microwaved water in each different type of plastic for three minutes. After I microwaved it, I let it cool and split the water among three plants labeled for that plastic. I repeated these steps for each plastic and the other plants. I measured the height of the plants every other day. Three control plants were given regular water. Results Polystyrene was the most harmful and caused its plants to decrease the most. They decreased from 5.6 cm to 4.7 cm. Polyvinyl chloride began to decrease towards day eight. The control increased from 5.3 cm to 8.1 cm. Types number four and five was the least affective but did not have any large increases. Conclusions/Discussion This project proves that polystyrene is the most dangerous. Take-out boxes from restaurants are made out of this type and, many people bring their take-out box home and microwaves their food in it. Long term use of microwaving food in plastic can be harmful to humans.	
Summary Statement It is about which plastic is the most harmful when microwaved.	
Help Received My dad bought me supplies and my mom bought me the plants.	